



Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2017 1 Identification

Reviewed on 06/14/2017

· I	Product identifier
	Trade name: <u>CA5211</u> Application of the substance / the mixture Cyanoacrylate Adhesive
- [Details of the supplier of the safety data sheet Manufacturer/Supplier: ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 1-877-259-1669 www.resinlab.com Information Department: Product Safety Department: msds@resinlab.com Emergency Telephone Number: North America - Chemtrec: 1-800-424-9300 (24 hours) International - Chemtrec: 01-703-527-3887 (24 hours)
2	Hazard(s) identification
	Classification of the substance or mixture
	Flam. Lig. 4 H227 Combustible liquid.
Ł	Eye Dam. 2B_H320_Causes eye irritation.
	Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms Not classified Signal word Warning Hazard statements Hazard statements Hazar Combustible liquid. H320 Causes eye irritation. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation persists: Get medical advice/attention. If e ortnaminated clothing and wash it before reuse. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA system NFPA ratings (scale 0 - 4)
	Health = 1 Fire = 2 Reactivity = 1 NFPA special hazards (water reactivity and oxidizing property): None
	· HMIS System
	HMIS-ratings (scale 0 - 4) $HEALTH 1$ $Health = 1$ $Fire = 2$ $REACTIVITY 1$
. (Other hazards

Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable.

Chemical characterization:	Mixtures		
 Dangerous components 	5:		
CAS: 27816-23-5	Beta-Methoxyethyl Cyanoacrylate	Flam. Lig. 4, H227; Eye Dam. 2B, H320	90-100%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 RTECS: MX 3500000	1,4-dihydroxybenzene	Muta. 2, H341; Carc. 2, H351 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Sens. 1, H317	0.025-<0.1%

percentage of composition has been withheld as a trade secret. US



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4 First-aid measures

Description of first aid measures

- General information: Keep warm, position comfortably and cover well.
- After inhalation: Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force. If skin irritation or rash occurs, get medical advice/attention.

After eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage. After swallowing:

Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass. Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

- Extinguishing media Suitable extinguishing agents: Use fire fighting measures that suit the environment. Alcohol resistant foam

 - Fire-extinguishing powder Carbon dioxide
- Special hazards arising from the substance or mixture Caution! Combustible liquid. In case of fire, the following can be released:
- Nitrogen oxides (NOx) Carbon dioxide (CO₂) and Carbon monoxide (CO) Advice for firefighters

Protective equipment: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156). As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Caution! Combustible liquid; wear fire/flame resistant or retardant clothing during cleaning up.
- Wear protective clothing. Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use. Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Methods and material for containment and cleaning up: Ensure adequate ventilation.
- Flood area to polymerize material then soak up with an inert absorbant. Non sparking tools should be used. Dispose contaminated material as waste according to item 13.

7 Handling and storage

· Handling:

ndling: Precautions for safe handling Open and handle receptacle with care. Keep away from incompatible material(s). Avoid any release into the environment. For industrial or professional use only Do not breathe dust/fumes/mist/vapor/spray. Avoid contact with eyes, skin and clothing. Keep away from heat,sparks, flames and ignition sources. Observe all the personal protection requirements in Section 8.

· Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Provide ventilation for receptacles.

- Keep stored in accordance with local, regional, national, and international regulations.

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8 Exp	osure controls/personal protection
. (1	trol parameters Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.
123-	31-9 1,4-dihydroxybenzene
PEL	Long-term value: 2 mg/m³ Ceiling limit value: 2* mg/m³ *15-min
TLV	Long-term value: 1 mg/m³ DSEN
	Additional Occupational Exposure Limit Values for possible hazards during processing: None.
If ap recor If exu	 Desure controls plicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below non-mended exposure limits. Dosure limits have not been established, maintain airborne levels to an acceptable level. Personal protective equipment: General protective and hygienic measures: Avoid contact with the eyes. Be sure to clean skin thoroughly after work and before breaks.
	· Personal Protective Equipment (PPE)
	 Breathing equipment: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommend exposure limits. Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situatior confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air suppliv respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use. Protection of hands:
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and vari from manufacturer to manufacturer.
	Chemical resistant gloves
	· Eye protection:
	Safety Glasses with side shields
· Limi The infori	• Body protection: Appropriate chemical resistant clothing. tation and supervision of exposure into the environment Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additior mation, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.
9 Phy	sical and chemical properties
	mation on basic physical and chemical properties

Information on basic physical General Information	l and chemical properties	
· General mornation · Appearance: · Form: · Color: · Odor: · Odor threshold:	Liquid Colorless Odorless Not determined.	
· pH-value:	Not determined.	
Change in condition Melting point/Melting Boiling point/Boiling r	range: Undetermined. ange: 74 °C (165 °F)	
· Flash point:	80-93 °C (176-199 °F)	
· Flammability (solid, gased	ous): Not applicable.	
 Ignition temperature: 	Not determined.	
· Decomposition tempe	rature: Not determined.	
· Auto igniting:	Product is not selfigniting.	
 Danger of explosion: 	Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not determined.	
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 Vapor Density: 	not determined	
Density at 20 °C (68 °F): Vapor density Evaporation rate	1.13 g/cm³ (9.43 lbs/gal) Not applicable. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Viscosity: Dynamic: Kinematic:	Not available. Not available.	

10 Stability and reactivity

· Reactivity Combustible liquid.

- Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures. Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat. No decomposition if used and stored according to specifications.
 Possibility of hazardous reactions In contact with incompatible materials.
 Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources.

- Incompatible materials:
- Strong reducing agents alkali metals Oxidizing agents Bases (Alkalis) Amines Water

Water

Hazardous decomposition products: Possible in traces.

11 Toxicological information

Information on toxicological effects

- Acute toxicity: LD/LC50 values that are relevant for classification: See acute inhalative effect(s) for further information

 - Specific symptoms in biological assay: No further relevant information available; classification is not possible. See acute inhalative effect(s) for further information.
 - Primary irritant effect:
- on the skin: No irritant effect.
 on the eye: Irritating effect.
 Sensitization: No sensitizing effects known.
 Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicitv

- Aquatic toxicity: No further relevant information available.
 Persistence and degradability No further relevant information available.
 Behavior in environmental systems:
 Bioaccumulative potential No data available.
 Mobility in soil No further relevant information available.
 Additional coefficient information: product is pop resid dogradable.
- · Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative. General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
 PBT: None of the ingredients is listed.
 vPvB: None of the ingredients is listed.
 Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation: Must be specially treated adhering to official regulations.

Uncleaned packagings: • Recommendation: Dispose of according to your local waste regulations.

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A Transport information	
4 Transport information	
· UN-Number	
· DOT, ADN, IMDG · IATA	not regulated UN3334
	UN3334
· UN proper shipping name	
· DOT, ADN, IMĎG · IATA	not regulated Aviation regulated liquid, n.o.s. (Cyanoacryate ester)
	Aviation regulated liquid, 11.0.5. (Cyanoaci yate ester)
 Transport hazard class(es) 	
· DOT, ADN, IMDG	
· Class	not regulated
<u>A</u>	
\otimes	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group · DOT, IMDG	
· DOT, IMDG	not regulated
·IATA	III -
· Environmental hazards:	Not applicable.
 Special precautions for user 	Not applicable.
Transport in bulk according to Annex II of MARPOL7	'3/78 and the
IBC Code	Not applicable.
· Transport/Additional information:	
· IATA	
· Remarks:	Primary packs containing less than 500ml are unregulated
Nemarko.	Primary packs containing less than 500ml are unregulated this mode of transport and may be shipped unrestricted.
· UN "Model Regulation":	not regulated
	notrogulatou
5 Regulatory information	
· Safety, health and environmental regulations/legislat	tion specific for the substance or mixture
Safety, health and environmental regulations/legislat SARA Section 355 (extremely hazardous s	tion specific for the substance or mixture substances):
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Safety, health and environmental regulations/legislat SARA Section 355 (extremely hazardous s 123-31-9 1,4-dihydroxybenzene SARA Section 313 (Specific toxic chemica 123-31-9 1,4-dihydroxybenzene	substances): al listings): 0.025-<0.1
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International Regulation Lists
 Chinese Chemical Inventory of Existing Chemical Substances:
 All ingredients are listed.





US

Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2017 Trade name: CA5211

Reviewed on 06/14/2017

· GHS label elements GHS label elements	(Contd. of page
· National regulations:	
Japanese Existing and New Chemical Substance List:	
All ingredients are listed.	
Korean Existing Chemical Inventory:	
123-31-9 1,4-dihydroxybenzene	
European Pre-registered substances:	
All ingredients are listed.	
· REACh - Substances of Very High Concern (SVHC) List:	
None of the ingredients is listed.	
 Restriction of Hazardous Substances Directive (RoHS) list: 	
None of the ingredients is listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department Issuing (M)SDS: Product Development Department Contact: msds@resinlab.com Date of preparation / last revision 06/14/2017 / 1 * The compared to the previous version altered.